

## MODEL TH111GFCI-NP 240 VAC (DOUBLE POLE)

### SUMMARY

#### OPTIONS SELECTION

At the back of the thermostat, there is one selection switch to set at your preference.

Temperature in °C or °F.

#### TO SET TEMPERATURE

Press on ▲ or ▼ once to see setpoint temperature appear on display. Every subsequent press will change the setpoint temperature by 1 degree.

#### TO RECORD THE ☀ (COMFORT) SETPOINT TEMPERATURE

Select chosen setpoint temperature by using ▲ or ▼ button. Press on ☀ button (2 to 3 seconds) until icon appears on display.

#### TO RECORD THE ☾ (ECONOMIC) SETPOINT TEMPERATURE

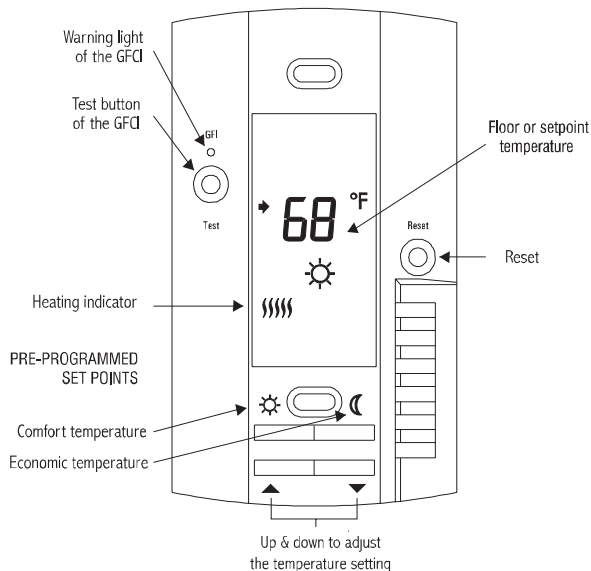
Select chosen setpoint temperature by using ▲ or ▼ button. Press on ☾ button (2 to 3 seconds) until icon appears on display.

#### TO RECORD THE 🏠 (VACATION) SETPOINT TEMPERATURE

To program the Vacation temperature, select the desired degree using the ▲ ▼ buttons and press on the ☀ and ☾ buttons simultaneously until the 🏠 icon is displayed (app. 3 seconds).

#### CHECKING GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

Adjust the setpoint temperature until heating indicator (flames) appears on display. Press TEST button. The test is conclusive if the warning light (GFCI) on thermostat is ON and power to the load is cut-off (flames remain on display though). If these events do not occur, check the installation. Press on RESET button to reset the GFCI.



### INSTALLATION

Parts included:

- One (1) TH111GFCI-NP (240 VAC) thermostat
- Two (2) 6-32 screws
- Four (4) Solderless connectors (for copper wire)
- One (1) Temperature sensor with a 15 foot extension

**TURN OFF POWER TO THE HEATING SYSTEM AT THE MAIN POWER PANEL TO AVOID ELECTRICAL SHOCK. KEEP AIR VENTS OF THE THERMOSTAT CLEAN AND OBSTRUCTION FREE.**

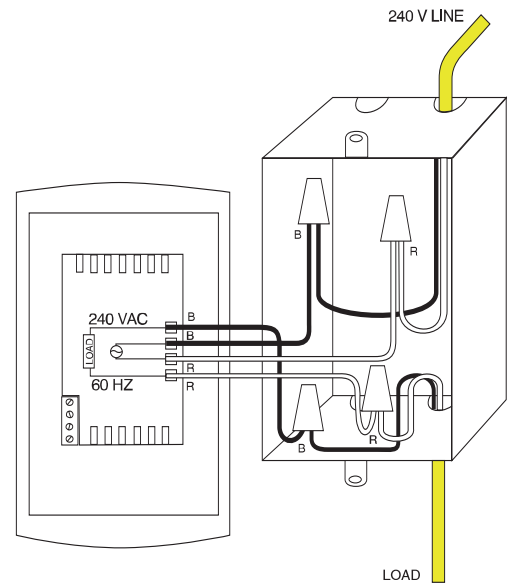
This thermostat should be installed by an electrician or experienced technician. The thermostat must be used with a circuit breaker or fuse.

This thermostat was designed to control floor electric heating systems. The resistive load must not exceed 4000 watts @ 240 VAC (16.7 A). The thermostat is equipped with a ground fault circuit interrupter (GFCI) and therefore the isolation of the line and load is required for operation. During a ground fault, the two lines of the load will be cut-off from the 240 V line. Connect thermostat as shown on diagram.

#### 1) CONNECTING WIRES AND MOUNTING THERMOSTAT

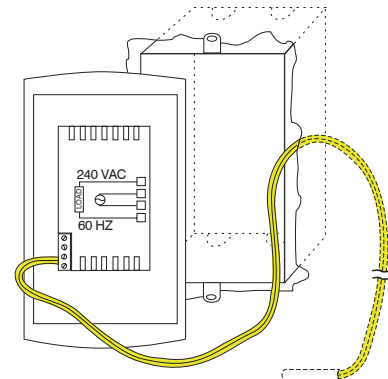
Connect the rear thermostat wires to the power supply and to the load using solderless connectors for copper wires. See schematic diagram.

Push the excess wire back into the electrical box to prevent interference with the thermostat. Secure the thermostat using two (2) 6-32 screws 1 1/4 inches long. Once the thermostat is properly installed, return power to the heating system.



#### 2) CONNECTING TEMPERATURE SENSOR WIRE

Connect the sensor wire to the two lower screws of the terminal block at the back of the thermostat (no polarity needs to be respected). The wire must pass outside the electrical box and follow the wall down to the floor. The sensing probe should be placed in a representative heat area for maximum system performance. The sensing probe should be centered between the wires in the mat. The probe wire cannot cross any heater wires and the temperature sensor must not be directly or adjacent to a heating wire.




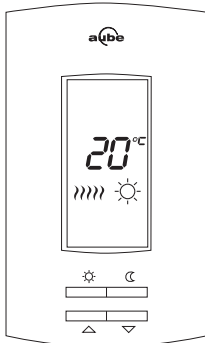
#### CHOOSING THE TEMPERATURE SCALE IN °C (CELSIUS) OR °F (FAHRENHEIT) TO APPEAR ON DISPLAY.

Set the temperature switch at the back of the thermostat to °C or °F at your preference.

## POWER UP

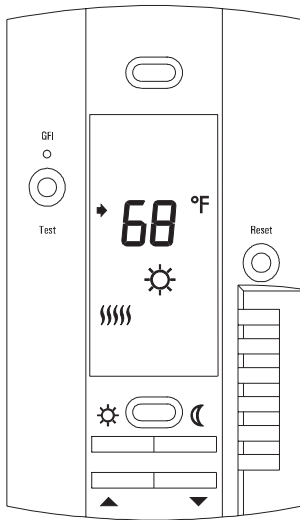
To power up thermostat:


When power is applied for the first time, the display must show the time 00:00, the floor temperature and the Manual mode icon (  ). Other information might show up on the display if installation is defective or does not comply with the instructions. The warning light (GFI) must be off.



The message L0 or HI will appear on the display if the temperature sensor is defective or the temperature is below 0 °C (32 °F) or higher than 60 °C (140 °F). Also, the heating indicator will be present on display and the relay will be closed (current going in the load).

## CHECKING GROUND FAULT CIRCUIT INTERRUPTER (GFCI)







Adjust the setpoint temperature until heating indicator (  ) appears on display. Press TEST button. The test is conclusive if the warning light (GFCI) on the thermostat is ON and power to the load is cut-off. If these events do not occur, check the installation. Press on RESET button to reset the GFCI.





If the GFCI test fails: Check the load wires. The thermostat must be in heating mode to carry out the test (heating indicator ON).

The GFCI test should be carried out monthly. If the test fails, cut off the electric power to the heating system and call customer service or return the thermostat to your supplier for verification. If the warning light comes on during normal operation, cut off power to the heating system and have an electrician verify the installation.



## OPERATION

The thermostat has 4 different buttons to control the floor temperature. The  and  buttons increase or decrease the setpoint temperature. The  and  buttons are used to store and recall two temperature settings.









### • Default values

To erase the recorded setting temperatures (  and  ) and replace their values by the default ones,  28 °C (82 °F) and  18 °C (64 °F) Change the °C / °F selector switch once and back again to the previous setting.




### • Setting a setpoint temperature

Press once the  or  button to see the setpoint temperature on display. Every subsequent press will change the setpoint temperature by one degree.




### • Recording setpoint temperature for (COMFORT) and (ECONOMIC) settings

By recording the setpoint temperatures you will be able to go from the  setting to the  or  setting by simply pressing the  or  button or (  and  ) for .






### • Recording a setpoint temperature for the (COMFORT) setting






Select chosen setpoint temperature by using  and  buttons. Keep pressing on the  button (2 to 3 seconds) until icon appears on display.

### • Recording a setpoint temperature for the (ECONOMIC) setting

Select chosen setpoint temperature by using  and  buttons. Keep pressing on the  button (2 to 3 seconds) until icon appears on display.

### • Recording a setpoint temperature for the (ECONOMIC) setting



To program the Vacation temperature, select the desired degree using the   buttons and press on the  and  buttons simultaneously until the  icon is displayed (app. 3 seconds).

**NOTE: When the temperature setting used is  or  or  , you can still use the  or  buttons to change the setpoint temperature without changing the recorded temperature.**

### • Recalling stored setpoint temperatures

Once stored, the setpoint temperatures can be recalled simply by selecting the  or  button or both  and  for  setpoint.

## CHARACTERISTICS

Model:	TH111GFCI-NP (240 VAC)
	double pole
Supply:	240 VAC 50/60 Hz
Load:	16.7 A maximum (resistive only)
Power:	4000 watts @ 240 VAC
Ground fault circuit interrupter (GFCI):	10 mA trip level
Certification:	CSA/C, US
Display range:	0°C to 60°C (32°F to 140°F)
Setting range:	5°C to 40°C (40°F to 104°F)
 Default setpoint:	28°C (82°F)
 Default setpoint:	18°C (64°F)
Storage:	-20°C to 50°C (-4°F to 120°F)
Temperature control:	Proportional, 15-minute cycles
Accuracy:	± 0.5°C (0.9°F) (4000 W)

## WARRANTY

### AUBE TECHNOLOGIES INC. ONE (1) YEAR LIMITED WARRANTY

This product is warranted against material defects and workmanship in normal use for a period of one year, from the date of the original purchase from authorized dealers. During this period, AUBE technologies inc. will repair or replace the product with a new or of equivalent quality at AUBE'S option, without charge, any product proven defective in normal use.

Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage. This warranty does not cover the cost of installation, removal or reinstallation.

This limited warranty is in lieu of all other warranties, obligations or liabilities expressed or implied by the company. In no event shall AUBE technologies inc. be liable for consequential or incidental damages resulting from installation of this product. Some states or provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

The defective product and the original sale receipt must be returned to the original dealer or shipped pre-paid, insured and addressed to:

**Aube technologies inc. • Customer Service • 705, Av. Montrichard • Saint-Jean-sur-Richelieu (Quebec) • J2X 5K8**  
**www.aubetech.com • service@aubetech.com**

If you have any questions concerning the installation or programming of this product, please call our technical assistance at **(450) 358-4600** for the Montreal area or **1-800-831-AUBE** for outside area, Monday to Friday between 8:30 AM and 5:00 PM Eastern time.